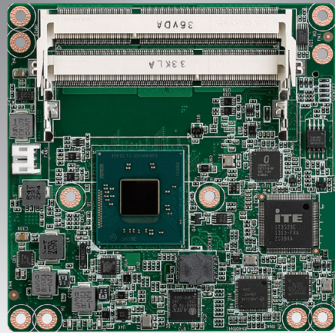


SOM-6867

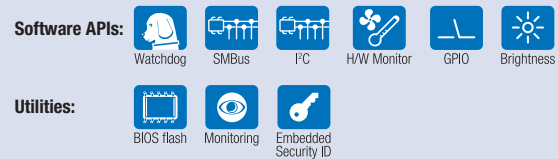
Intel Atom/Celeron Processor COM Express Type 6 Compact Module

NEW



Features

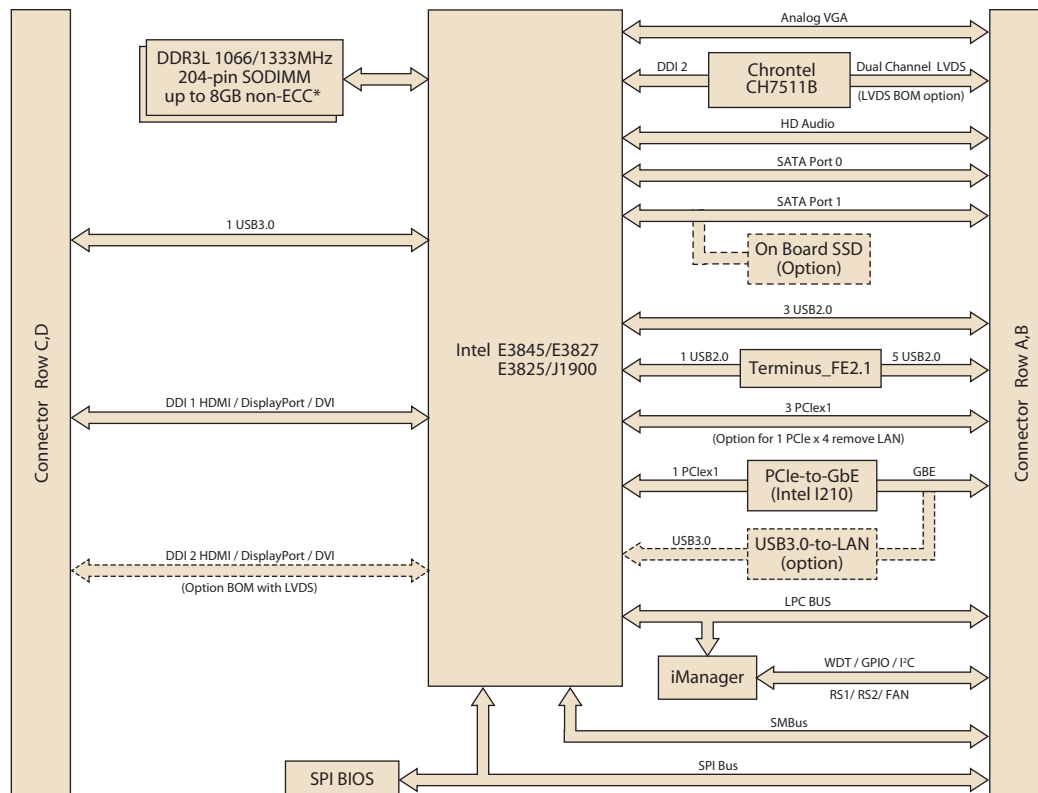
- Embedded Intel Atom/Celeron Processor E3845/E3827/E3825/J1900
- Dual Channel DDR3L-1333 SODIMM sockets up to 8 GB
- Supports VGA, LVDS, HDMI/DVI/DisplayPort
- Support 3 PCIe x1, 8 USB2.0, USB3.0, 2 SATAII, LPC, SMBus, I²C
- Supports iManager, SUSIAccess and Embedded Software APIs



Specifications

| | | | | | |
|------------------|---|--|------------------|---------------------------|------------------|
| Form Factor | Form Factor | COM Express Compact Module | | | |
| | Pin-out Type | COM Express R2.1 Type 6 | | | |
| Processor System | CPU | E3845 | E3827 | E3825 | J1900 |
| | Base Frequency | 1.91 GHz | 1.75 GHz | 1.33 GHz | 2.0 GHz |
| | Burst Frequency | N/A | N/A | N/A | 2.42 GHz |
| | Core/Threads | 4/4 | 2/2 | 2/2 | 4/4 |
| | LLC | 2 MB | 1 MB | 1 MB | 2 MB |
| | CPU TDP | 10 W | 8 W | 6 W | 10W |
| | BIOS | AMI EFI 16 Mbit | | | |
| Memory | Technology | DDR3L 1333, 2-CH | DDR3L 1333, 2-CH | DDR3L 1066, 1-CH (DIMM 1) | DDR3L 1333, 2-CH |
| | ECC Support | N/A | | | |
| | Max. Capacity | Up to 8GB | | | |
| | Socket | Dual 204P SODIMM | | | |
| Graphics | Controller | Intel HD Graphics for Intel Atom Processor Z3700 Series | | | |
| | Base/Burst Frequency | 542/792 MHz | 542/792 MHz | 533/533 MHz | 688/854 MHz |
| | Graphic Memory | Up to 1720MB DVMT | | | |
| | 3D/HW Acceleration | DX11, OpenGL3.2, OpenCL1.1, OpenGL ES 2.0, H.264 (AVC) | | | |
| Display | VGA | 2560 x 1600 | | | |
| | LCD | Single and dual channel 18/24 bit LVDS, up to 1920 x 1200 | | | |
| | DDI (HDMI/DVI/DisplayPort) | 1 DDI (up to 2560 x 1600; optional: 2 DDI without LVDS; HDMI up to 1920 x 1200) | | | |
| Expansion | Dual Display | LVDS + DDI, VGA + LVDS, VGA + DDI, DDI + DDI (Optional) | | | |
| | PCI Express x1 | 3 ports (optional 4 PCIe x1, or 1 PCIe x4 without LAN) | | | |
| | Audio Interface | HD Audio | | | |
| Serial Bus | LPC | Yes | | | |
| | SMBus | Yes | | | |
| Ethernet | I ² C Bus | Yes | | | |
| | Controller | Intel i210 | | | |
| I/O | Speed | 10/100/1000 Mbps | | | |
| | SATA | 2 ports support SATAII 3.0Gb/s (Optional: 1 port while using onboard storage) | | | |
| | Onboard Storage | onboard flash (Optional, MLC up to 64GB, SLC up to 32GB) | | | |
| | USB3.0 | 1 Port | | | |
| | USB2.0 | 8 Ports | | | |
| | Audio Interface | HD Audio | | | |
| | SPI Bus | 1 channel (SPI BIOS EEPROM) | | | |
| | GPIO | 8-bit GPIO | | | |
| | Watchdog | 65536 level, 0 – 65535 sec | | | |
| | COM Port | 2 Ports (2-Wire) | | | |
| | Express Card | 2 Ports | | | |
| Smart Fan | 2 Ports; 1 Port on COM Module. Support 12V Fan, 1 Port on Carrier Board | | | | |
| Power | Type | ATX: Vin, VSB, AT: Vin | | | |
| | Supply Voltage | Vin: 4.75(5-5%) – 20V(19+5%), VSB: 5V±5%, RTC Battery: 2.0-3.3V | | | |
| | Power Consumption (Max.) | +12V @ 1.73A (J1900) +12V @ 1.28A (E3845) | | | |
| | Power Consumption (Idle) | +12V @ 1.01A (J1900) +12V @ 0.79A (E3845) | | | |
| Environment | Temperature | Operating: 0 – 60° C (32 – 140° F) Storage: -40 – 85° C (-40 – 185° F) | | | |
| | Humidity | Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95% relative humidity, non-condensing | | | |
| Mechanical | Dimensions | 95 x 95 mm (3.74" x 3.74") | | | |

Block Diagram



*- E3800 Series must to have Channel A (DIMM1) inserted.

Ordering Information

| Part No. | SoC | Base / Burst Freq. | CPU TDP | LLC | Core | Threads | Thermal Solution | Operating Temperature |
|------------------|-------|--------------------|---------|-----|------|---------|------------------|-----------------------|
| SOM-6867ACB-S9A2 | E3845 | 1.91GHz / N/A | 10W | 2MB | 4 | 4 | Passive | 0 ~ 60 °C |
| SOM-6867ACB-S7A2 | E3827 | 1.75GHz / N/A | 8W | 1MB | 2 | 2 | Passive | 0 ~ 60 °C |
| SOM-6867RCB-U0A2 | J1900 | 2.0GHz / 2.42GHz | 10W | 2MB | 4 | 4 | Passive | 0 ~ 60 °C |
| SOM-6867AXB-S9A2 | E3845 | 1.91GHz / N/A | 10W | 2MB | 4 | 4 | Active | -40 ~ 85 °C |
| SOM-6867AXB-S7A2 | E3827 | 1.75GHz / N/A | 8W | 1MB | 2 | 2 | Active | -40 ~ 85 °C |
| SOM-6867AXB-S3A2 | E3825 | 1.33GHz / N/A | 6W | 1MB | 2 | 2 | Active | -40 ~ 85 °C |

Note: Passive = fanless; Active = with fan

Development Board

| Part No. | Description |
|------------------|---|
| SOM-DB5800-00A2E | COM Express Development Board A2 Type 6 Pin-out |

Optional Accessories

| Part No. | Description |
|----------------|----------------------------------|
| 1960048815N001 | Semi-Heatsink 95 x 95 x 16.25 mm |
| 1960048819N001 | Semi-Cooler 95 x 95 x 33 mm |

Packing List

| Part No. | Description | Quantity |
|----------------|---------------------|----------|
| - | SOM-6867 CPU Module | 1 |
| 1960065753N001 | Heatspreader | 1 |

Embedded OS

| OS | Part no. | Description |
|-------|------------|---------------------|
| WES7E | 2070013142 | SOM-6867 x64 V5.6.8 |
| Linux | | Linux Supported |

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